

SHEET 1 OF 1

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 3404-2-1	SERIAL NO. 10/689,693
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT ROCKWOOD et al.	
		FILING DATE October 20, 2003	GROUP ART 2671 2672

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
3	6,718,291	4/6/2004	Shapiro et al.	703	2	
3	6,281,905	8/28/2001	Massabo et al.	345	433	
3	6,271,856	8/7/2001	Krishnamurthy	345	429	
3	6,268,871	7/31/2001	Rice et al.	345	442	
3	6,204,860	3/20/2001	Singh	345	433	
3	5,774,359	6/30/1998	Taneja	364	191	
3	5,345,546	9/6/1994	Harada et al.	395	142	
3	3,882,304	5/6/1975	Walters	235	151.11	

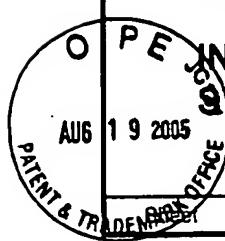
FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO
3	WO 02/25587	3/28/2002	PCT	G06T		✓	
3	WO 01/08102	2/1/2001	PCT	G06T	15/00	✓	
3	WO 95/30209	11/9/1995	PCT	G06T	17/20	✓	
3	WO 95/11489	4/27/1995	PCT	G06F	17/50	✓	

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3	13	International Search Report dated October 25, 1999 for International Patent Application No. PCT/US99/16844
3	14	International Preliminary Examination Report dated December 14, 2001 for International Patent Application No. PCT/US99/16844

EXAMINER	<i>Alvin J. Paul</i>	DATE CONSIDERED	<i>09/30/05</i>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of

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Complete if Known	
Application Number	10/689,693
Filing Date	October 20, 2003
First Named Inventor	ROCKWOOD et al.
Art Unit	2671 2672
Examiner Name	Not Yet Assigned
Attorney Docket Number	3404-2-1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-kind Code <small>2/2 known</small>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² ; Number ³ ; Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
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OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

Examiner Initials*	Cite No. ¹	
<i>z</i>	1	"Part Modeling User's Guide: Surface Features"; (date unknown); 41 pp.

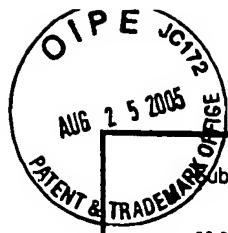
Examiner Signature

Alan Jankus

Date Considered

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TRADEMARKS Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/689,693
				Filing Date	October 20, 2003
				First Named Inventor	ROCKWOOD et al.
				Art Unit	2671-2672
				Examiner Name	SEALEY, Lance W. JA
Sheet	1	of	1	Attorney Docket Number	
				3404-2-1	

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CITATION (including Author, Title, Date, Permanent Page(s), etc.)		
Examiner Initials*	Cite No. ¹	
<i>B</i>	1	"Part Modeling User's Guide: Surface Features"; (date unknown); 41 pp.

Examiner Signature		Date Considered	09/30/05
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		APPLICANT ROCKWOOD et al.	
		FILING DATE October 20, 2003	GROUP ART 2672

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
<u>3</u>	1	6,369,815	4/9/2002	Celniker et al.	345	420	
<u>2</u>	2	6,256,038	7/3/2001	Krishnamurthy	345	419	

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO
<u>3</u>	EP 0 303 706	Feb. 22, 1989	Europe	G05B	19/403	—	—

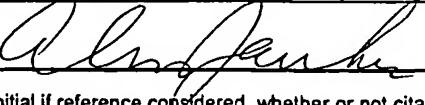
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<u>3</u>	4	"A Technology Marketing White Paper: Dassault Acquires Spatial Technology: The think3 Position"; <i>think3</i> ; 7 pgs.
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	10	Driskill; "Towards the Design, Analysis, and Illustration of Assemblies"; <i>University of Utah, Dept. of Science</i> ; 1996; (Abstract)
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<u>3</u>	16	Letcher et al.; "Parametric Design and Gridding Through Relational Geometry"; <i>AeroHydro, Inc.</i> ; 15 pgs.

EXAMINER <i>Alan Jankin</i>	DATE CONSIDERED 09/30/05
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INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT ROCKWOOD et al.	
		FILING DATE October 20, 2003	GROUP/ART <u>2672</u>

<u>3</u>	17	Markosian et al.; "Skin: A Constructive Approach to Modeling Free-form Shapes"; <i>Proceedings of SIGGRAPH</i> ; August 1999; (Annote)
<u>1</u>	18	"Mass 3-D Technology - Unsurpassed"; <i>think3</i> ; 2000; 2 pgs.
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	20	Rössl et al.; "Line-Art Rendering of 3D-Models"; <i>Max-Planck-Institute for Computer Sciences</i> ; (date unknown); 10 pgs.
	21	"Shape Modeling Description: New Computation Techniques for Shape Modeling and Design: Overview"; (date unknown); 15 pgs.
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<u>3</u>	24	Tumblin et al.; "LCIS: A Boundary Hierarchy for Detail-Preserving Contrast Reduction"; <i>Proceedings of SIGGRAPH</i> ; August 1999; (Annote)

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	2 6,256,038*	7/3/01	Krishnamurthy	345	419	
	3 6,133,922	10/17/2000	Opitz	345	420	
	4 5,966,133	10/12/1999	Hoppe	345	420	
	5 5,963,209	10/5/1999	Hoppe	345	419	
	6 5,856,828	6/5/1999	Letcher, Jr.	345	420	
	7 5,745,666	4/28/1998	Gilley et al.	395	128	
	8 5,636,338	6/3/1997	Moreton	395	142	
	9 5,237,647	8/17/1993	Roberts et al.	395	119	
	10 5,818,452	10/06/98	Atkinson et al.	345	420	
	11 5,748,192	05/05/98	Lindholm	345	425	
	12 5,731,816	03/24/98	Stewart et al.	345	419	
	13 5,636,338	06/03/97	Moreton	395	142	
	14 5,619,625	04/08/97	Konno et al.	395	119	
	15 5,608,856	03/04/97	McInally	395	142	
	16 5,579,464	11/26/96	Saito et al.	395	141	
	17 5,557,719	09/17/96	Ooka et al.	395	141	
	18 5,510,995	04/23/96	Oliver	364	474.24	
	19 5,497,451	03/05/96	Holmes	395	120	
	20 5,481,659	01/02/96	Nosaka et al.	395	123	
	21 5,473,742	12-5-95	Polyakov et al.	395	142	
	22 5,459,821	10/17/95	Kuriyama et al.	395	120	
	23 5,299,302	03/29/94	Fiasconaro	395	142	
	24 5,257,203	10/26/93	Riley et al.	364	474.05	
	25 5,251,160	10/05/93	Rockwood et al.	364	578	
	26 5,185,855	02/09/93	Kato et al.	395	129	
3	27 5,123,087	06/16/92	Newell et al.	395	155	

EXAMINER <i>Alan Faulkner</i>	DATE CONSIDERED <u>9/30/05</u>
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				FILING DATE Herewith	GROUP ART 2671	

<i>3</i>	28	4,821,214	04/11/89	Sederberg	364	522	
<i>3</i>	29	4,625,289	11/25/86	Rockwood	364	522	

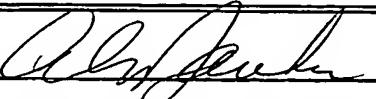
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<i>3</i>	30	Adi Levin, "Interpolating Nets of Curves by Smooth Subdivision Surfaces", <i>SIGGRAPH 99, Los Angeles, California, August 8-13, 1999</i> , pp. 57-64
	31	James et al., "Accurate Real Time Deformable Objects", <i>SIGGRAPH 99, Los Angeles, California, August 8-13, 1999</i> , pp. 65-72
	32	Markosian et al., "Skin: A Constructive Approach to Modeling Free-form Shapes", <i>SIGGRAPH 99, Los Angeles, California, August 8-13 1999</i> , pp. 393-400
	33	Igarashi et al., "Teddy: A Sketching Interface for 3D Freeform Design", <i>SIGGRAPH 99, Los Angeles, California, August 8-13, 1999</i> , pp. 409-416
	34	Stam, "Exact Evaluation of Catmull-Clark Subdivision Surfaces at Arbitrary Parameter Values", <i>SIGGRAPH 98, Orlando, Florida, July 19-24, 1998</i> , pp. 395-404
	35	Singh et al., "Wires: A Geometric Deformation Technique", <i>SIGGRAPH 98, Orlando, Florida, July 19-24, 1998</i> , pp. 405-414
	36	Amenta et al., "A New Voronoi-Based Surface Reconstruction Algorithm", <i>SIGGRAPH 98, Orlando, Florida, July 19-24, 1998</i> , pp. 415-421
	37	Sederberg et al., "Non-Uniform Recursive Subdivision Surfaces", <i>SIGGRAPH 98, Orlando, Florida, July 19-24, 1998</i> , pp. 387-394
	38	Weiss, "BE VISION, A Package of IBM 7090 FORTRAN Programs to Draw Orthographic Views of Combinations of Plane and Quadric Surfaces", <i>Bell Telephone Laboratories, Inc., Murray Hill, New Jersey, April 1996</i> , pp. 194-204
	39	Barghiel et al., "Pasting Spline Surfaces", from <i>Mathematical Methods for Curves and Surfaces</i> , Editors: Lyche and Schumaker, copyright <i>Vanderbilt University Press 1995</i> , pp. 31-40, ISBN 8265-1268-2
	40	Brunnett et al., "Spline elements on Spheres" from <i>Mathematical Methods for Curves and Surfaces</i> , Editors: Lyche and Schumaker, copyright <i>Vanderbilt University Press 1995</i> , pp. 49-54, ISBN 8265-1268-2
	41	M.D. Buhmann et al., "Spectral Properties and Knot Removal for Interpolation by Pure Radial Sums", from <i>Mathematical Methods for Curves and Surfaces</i> , Editors: Lyche and Schumaker, copyright <i>Vanderbilt University Press 1995</i> , pp. 55-62, ISBN 8265-1268-2
	42	Ma et al., "NURBS Curve and Surface Fitting and Interpolation", from <i>Mathematical Methods for Curves and Surfaces</i> , Editors: Lyche and Schumaker, copyright <i>Vanderbilt University Press 1995</i> , pp. 315-322, ISBN 8265-1268-2
	43	W.L.F. Degen, "High Accuracy Approximation of Parametric Curves", from <i>Mathematical Methods for Curves and Surfaces</i> , Editors: Lyche and Schumaker, copyright <i>Vanderbilt University Press 1995</i> , pp. 83-98, ISBN 8265-1268-2
<i>3</i>	44	Lodha et al, "Duality between Degree Elevation and Differentiation of B-bases and L-bases", from <i>Mathematical Methods for Curves and Surfaces</i> , Editors: Lyche and Schumaker, copyright <i>Vanderbilt University Press 1995</i> , pp. 305-314, ISBN 8265-1268-2

EXAMINER <i>Alan Parker</i>	DATE CONSIDERED <i>9/30/05</i>
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		FILING DATE Herewith	GROUP ART 2671

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46	Ellens et al., "An Approach to C ⁽¹⁾ and C ⁽⁰⁾ Feature Lines", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 121-132, ISBN 8265-1268-2
47	G. Farin, "The Geometry of C ¹ Projective curves and Surfaces", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 133-139, ISBN 8265-1268-2
48	M.S. Floater, "Rational Cubic Implicitization", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 151-159, ISBN 8265-1268-2
49	Baining Guo, "Avoiding Topological Anomalies in Quadric Surface Patches", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 177-186, ISBN 8265-1268-2
50	Jan Hadenfeld, "Local Energy Fairing of B-Spline Surfaces", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 203-212, ISBN 8265-1268-2
51	Hermann et al., "Techniques for Variable Radius Rolling Ball Blends", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 225-236, ISBN 8265-1268-2
52	Hoschek et al., "Interpolation and Approximation with Developable B-Spline Surfaces", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 255-264, ISBN 8265-1268-2
53	Leif Kobbelt, "Interpolatory Refinement as a Low Pass Filter", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 281-290, ISBN 8265-1268-2
54	Kolb et al., "Surface Reconstruction Based Upon Minimum Norm Networks", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 293-304, ISBN 8265-1268-2
55	Stephen Mann, "Using Local Optimization in Surface Fitting", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 323-332, ISBN 8265-1268-2
56	Manni et al., "C ¹ Comonotone Hermite Interpolation via Parametric Surfaces", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 333-342, ISBN 8265-1268-2
57	A. Markus et al., "Genetic Algorithms in Free Form Curve Design", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 43-354, ISBN 8265-1268-2
58	Even Mehlem, "Appeal and the Apple (Nonlinear Splines in Space)", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 365-384, ISBN 8265-1268-2
59	Helmut Pottmann, "Studying NURBS curves and Surfaces with Classical Geometry", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 413-438, ISBN 8265-1268-2
60	R. Schaback, "Creating Surfaces from Scattered Data Using Radial Basis Functions", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 477-496, ISBN 8265-1268-2
61	Sederberg, "Shape Blending of 2-D Piecewise Curves", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 497-506, ISBN 8265-1268-2

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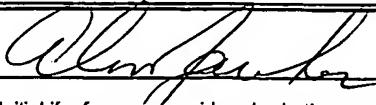
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3	62	Weller et al., "Tensor-Product Spline Spaces with Knot Segments", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 563-572, ISBN 8265-1268-2
1	63	Kenji Ueda, "Normalized Cyclide Bezier Patches", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 507-516, ISBN 8265-1268-2
	64	Varady et al., "Vertex Blending Based on the Setback Split", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 527-542, ISBN 8265-1268-2
	65	J. Warren, "Binary Subdivision Schemes for Functions over Irregular Know Sequences", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 543-562, ISBN 8265-1268-2
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	68	A. Nasri, "Interpolation of open B-spline curves by recursive subdivision surfaces", <u>The Mathematics of Surfaces VII</u> , Editors: Goodman and Martin, <u>Information Geometers</u> , 1997, pp. 173-188
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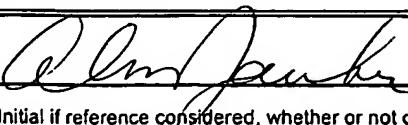
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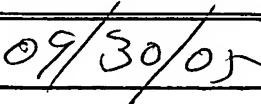
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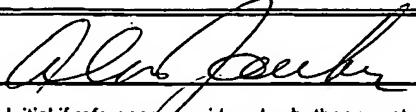
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